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28 JUL 1953

ENEMY MATERIEL MEDICAL

Japanese Drugs and Medicines

Medical No. 4

CLASSIFICATION CHANGED
TO **UNCLASSIFIED**
AUTH EO 10501
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SECRETARY OF DEFENSE
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My dear Sir

REPORT ON JAPANESE DRUG MANUFACTURING

The S. Nakashima Drug Manufacturing Company, Manila

INTRODUCTION

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The S. Nakashima Drug Manufacturing Company, 411 Reina Regente, Manila, P.I., was captured and most of the equipment secured intact.

A survey of the equipment, crude drugs, and methods of manufacturing reflected the control exercised by the Japanese in drug manufacture. The raw materials found indicated the source of drugs and chemicals being utilized.

SUMMARY OF STUDIES

Results of this study indicate the following conclusions, which are elaborated upon in the accompanying descriptions:

1. Adequate facilities for producing sterile solutions for injection were not found.
2. Raw materials were, with few exceptions, from sources other than Japan.
3. Bulk sterile fluids for diluting drugs prior to filling were not prepared in the Nakashima Drug Co. Large Japanese glaseptic ampoules containing Ringer's, saline, and glucose solutions were used for this purpose.
4. Evidences of intensive advertising of proprietary preparations were found.
5. Apparatus for manufacture was meager and, in many instances, of crude construction.
6. The standards of control in drug manufacture in this installation were inferior when compared with U.S. standards.
7. No extensive facilities were available in the Nakashima Drug Company for large scale efficient drug manufacture.

R E S T R I C T E D

STERILITY CONTROL

The ampoule filling section was housed in an 1800 square foot floor space on the second floor of a brick and frame structure. No protection from street dust was afforded. Work tables were of wood. The control of dust was effected by oiling of the floors, walls, and work tables. No cubicles were provided for filling solutions under sterile conditions.

STERILIZING APPARATUS

Gas was used for glass sealing and operation of hot air sterilizers. A small steam generator was used for operating an autoclave. A small type of upright autoclave of Arthur H. Thomas design and manufacture was found in the filling room.

RAW MATERIALS

Small stores of bark were found in the crude drug room. Extraction apparatus was limited to galvanized percolators of about 20 quart capacity. Bulk chemical stores were from various sources, much of the material being of U.S. manufacture. The following medicaments and chemicals were removed from the ampoule room:

- | | |
|--------------------------------|---|
| 1. Camphora Pulvis, USP, Pound | Chas Pfizer & Co,
Mfg. Chemists, New York |
| 2. Potassium Iodide, Pound | N V Bandoengsche Kininefabriek.
Bandoeng, Java, Ned. Indie. (specially mfd and exported for Slowe & Co, Ltd, Shanghai) |
| 3. Potassium Iodide, 500 gms. | Gieshikaisha Iwaki Seiyakujo "best quality" |
| 4. Iodine, Pound | Kabushiki Kaisha, Osaka, Japan |
| 5. Novocaine, Powder, Ounce | Winthrop Chemical Co. Inc.,
New York |
| 6. Procaine Hydrochloride | Abbott Laboratories, Chicago |
- Handwritten notes:*
- "garbled" next to Bandoeng
- "meaningless" next to Gieshikaisha
- "store" and "hard" written near Kabushiki Kaisha

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| 7. Cod Liber Oil | Lauman & Kemp-Barclay & Co.
New York |
| 8. Calcium Lactate, pure, 4 Oz | Mallinckrodt Chemical Works,
New York |
| 9. Paraminobenzoyldiaethylamin
aethanelum hydrochloricum,
flakes | Kuenzle & Streiff, Inc. Mallinckrodt
(made in Switzerland) |
| 10. Potassium Carbonate, anhydrous | Mallinckrodt Chemical Works,
New York |
| 11. Glucosa, FEU, XI, En Polvo, Kg. | Mallinckrodt Chemical Works,
New York |

Analytical laboratory procedures will be conducted and reported when facilities are available in this department.

/s/ Harry E. Carnes
HARRY E. CARNES,
Major, MC
Chief of Section.

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